

**Notice of Allowability**

Application No.

09/828,439

Examiner

Sue Lao

Applicant(s)

SANCHEZ, HUMBERTO A.

Art Unit

2126

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/8/2004.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 4/6/2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**SUE LAO**  
**PRIMARY EXAMINER**

### DETAILED ACTION

1. Claims 1-20 are pending. This action is in response to the amendment filed 10/8/2004. Applicant has amended claims 13 and 17-19.

#### Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Sean Wooden, ANDREWS KURTH, LLP on January 25, 2005.

3. The application has been amended as follows:

Please amend claim 13 as follows.

Claim 13 (currently amended): A method for efficient accessing of Java objects and methods by C++ graphical user interfaces, the method comprising:

- a C++ graphical user interface issuing a method request to a C++ proxy object;
- the C++ proxy object passing method data to a base proxy object based on the method request;

- the base proxy object processing the method data, comprising:

  - getting a method ID based on the method data;

  - issuing JNI API calls with the method ID to call the Java method; and
  - a Java object executing a Java method based on the processed method data.

Please amend claim 17 as follows.

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Claim 17 (currently amended): The method of claim 16, wherein the base proxy object processing the method data further comprises:

executing the called base proxy object function; ~~and~~  
~~getting a method ID based on the method data.~~

Please amend claim 18 as follows:

Claim 18 (currently amended): A method for efficient accessing of Java objects and methods by C++ graphical user interfaces, the method comprising:

a C++ graphical user interface issuing a method request to a C++ proxy object;  
the C++ proxy object passing method data to a base proxy object based on the method request;

~~the base proxy object processing the method data;~~

a Java object executing a Java method based on the processed method data;

the base proxy object processing the method data, comprising

obtaining the Java object via a JNI API call, wherein ~~the~~ Java object instance data is passed through a JNI API; and  
initiating C++ proxy object linkage to the Java object, wherein the Java object instance data is used to create the C++ proxy object.

Please amend claim 19 as follows.

Claim 19 (currently amended): A computer readable medium containing instructions for enabling the efficient accessing of Java objects and methods by non-Java graphical user interfaces, by:

a non-Java graphical user interface issuing a method request to a non-Java proxy object;

the non-Java proxy object passing method data to a base proxy object based on the method request;

the base proxy object processing the method data, comprising:

getting a method ID based on the method data;

issuing JNI API calls with the method ID to call the Java method; and  
a Java object executing a Java method based on the processed method data.

#### **Allowable Subject Matter**

4. Claims 1-20 are allowed.

5. The following is an examiner's statement of reasons for allowance:

The prior art on record does not teach "base proxy object comprising one or more functions that encapsulate one or more JNI API calls necessary to call a Java method in the Java Virtual Machine based on the one or more method requests of the graphical user interface", as recited in claim 1, "the base proxy object processing the method data, comprising: issuing JNI API calls with the method ID to call the Java method," as recited in claims 13 and 19, and "obtaining the Java object via a JNI API call, wherein Java object instance data is passed through a JNI API" and "wherein the Java object instance data is used to create the C++ proxy object", as recited in claim 18. In other words, the prior art on record does not teach using a base proxy to wrap JNI APIs in the manner as recited above. The closest prior art on record, "Integrate Java and C++ with Jace" discusses generating C++ proxy classes (wrappers) for JNI values. The date of the publication, however, is after the filing date of the present application.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sue Lao whose telephone number is (571) 272-3764. A voice mail service is also available at this number. The examiner's supervisor, SPE

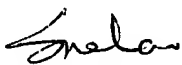
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Meng-Ai An, can be reached on (571) 272 3756. The examiner can normally be reached on Monday - Friday, from 9AM to 5PM. The fax phone number for the organization where this application or proceeding is assigned is (703) 872 9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 25, 2005

  
**SUE LAO**  
**PRIMARY EXAMINER**